

**AMENDMENTS TO THE CLAIMS**

**1-14. (Cancelled)**

**15. (Withdrawn)** A method for producing the coenzyme-binding glucose dehydrogenase of claim 1, which comprises culturing a microorganism having an ability of producing the coenzyme-binding glucose dehydrogenase of claim 1 and producing and recovering the coenzyme-binding glucose dehydrogenase in the culture.

**16. (Withdrawn)** A method for measuring glucose, which comprises using the coenzyme-binding glucose dehydrogenase of claim 1.

**17. (Withdrawn)** The method according to claim 16, wherein the method is carried out with ferricyanide at a final concentration of 2mM to 500mM.

**18. (Withdrawn)** A reagent composition for measuring glucose comprising the coenzyme-binding glucose dehydrogenase of claim 1.

**19. (Withdrawn)** The reagent composition of claim 18, wherein ferricyanide is employed at a final concentration of 2mM to 500mM.

**20. (Withdrawn)** A biosensor for measuring glucose using the coenzyme-binding glucose dehydrogenase of claim 1.

**21. (Withdrawn)** The biosensor of claim 20, wherein ferricyanide is employed at a final concentration of 2mM to 500mM.

**22. (New)** An isolated soluble flavin compound-binding glucose dehydrogenase obtainable from *Aspergillus terreus*, or a mutant thereof which results from a deletion, substitution or addition of one amino acid residue, which:

- (a) catalyzes a reaction for oxidizing glucose in the presence of an electron acceptor;
  - (b) has a 5% or less specific activity to maltose relative to the enzymatic activity to glucose;
- and
- (c) is inhibited by 1,10-phenanthroline.

**23. (New)** The flavin compound-binding glucose dehydrogenase of claim 22, wherein its activity is inhibited by 50% or more in the presence of a 1mM final concentration of 1,10-phenanthroline.

**24. (New)** The flavin compound-binding glucose dehydrogenase of claim 22, which oxidizes a hydroxyl group at the 1-position of glucose.

**25. (New)** The flavin compound-binding glucose dehydrogenase or mutant thereof of claim 22, wherein the flavin compound-binding glucose dehydrogenase is obtainable from the *Aspergillus terreus* deposited under the accession number FERM BP-08578.

**26. (New)** An isolated soluble flavin compound-binding glucose dehydrogenase having:

- (a) an optimum pH of pH 7.0 to pH 9.0;
- (b) a pH for stability of pH 4.5 to pH 8.5;
- (c) an optimum temperature of approximately 55°C;
- (d) a thermal stability at 50°C or below;
- (e) a molecular weight of about 130 kDa when measured by a gel filtration method, and about 85 kDa when measured by a sodium dodecyl sulfate-polyacrylamide gel electrophoresis;
- (f) a  $K_m$  value of 49.7mM (D-glucose); and
- (g) an isoelectric point (pI) of the coenzyme-binding glucose dehydrogenase measured by an isoelectric focusing of about 4.4.

**27. (New)** An isolated *Aspergillus terreus* which is capable of producing the flavin compound-binding glucose dehydrogenase of claim 22.

**28. (New)** Isolated *Aspergillus terreus* as deposited under the Accession number FERM BP-08578.